

Information Provided by BPA to the Slice Purchaser
Draft of May 13, 1998

Constraints on Operation of the Slice

1. Maximum rate of delivery (in MW) for either schedule or signal
2. Minimum rate of delivery (in MW) for either schedule or signal
3. Maximum daily HLH-energy deviation, for sustained peaking adjustment (in MWH)
4. Maximum upward storage deviation (in MWH)
5. Maximum downward storage deviation (in MWH)
 - items 1-3 apply in real time
 - items 4-5 apply on a daily basis (i.e., cumulative over 24 hours)
 - additional constraints would be expected on being "out of bounds" on the storage account: deadlines for getting "in bounds"

Information Traditionally Available from BPA

1. Means
 - Northwest Power Pool (NWPP)
 - Pacific Northwest Coordination Agreement (PNCA)
 - Columbia Basin telecommunications network
2. Data
 - on a weekly basis, the 10-day and 30-day forecast of system generation
This information is released only to National Marine Fisheries Service who then releases it to other parties. These forecasts are provided only during the flow augmentation period.
 - periodically, a matrix of forecasted energy above FELCC for remainder of OY
BPA no longer provides this information to non-federal parties.
 - frequently: updates of scheduled preventive maintenance outages, for hydro, thermal, and transmission
This is not BPA information; it is provided only through the Northwest Power Pool Operating Committee. It would be very unusual for BPA to provide this information to other parties.
 - as soon as available: anticipated operations and restrictions for fish, construction, or special events
As soon as BPA forms a stable expectation regarding operating characteristics, we share general information about the concept and characteristics of how we expect operations to be affected with parties who "need to know" the information. "Need to know" is defined by potential hydraulic impact, and would include parties who are members of the Coordination Agreement or other parties downstream who would

be affected by the hydraulics. The Corps and Bureau share the actual constraints in their February 1 PNCA submittals. As the expected operation approaches, BPA shares the actual impact on operations through means such as in lieu or provisional draft notifications.

“Need to know” notification applies to treaty as well as federal restrictions. In instances of immediate or emergency restrictions, notification and application may occur within a single day.

Forecasted Constraints and Data Supplied by BPA to the Slice Purchaser

Item	Within Day	Next Day	Next Week	Next Month	Rest of OY
1. Actual FCRPS generation (MWH)	after-the-fact each hour <u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	x <u>NO</u>
2. Maximum rate of delivery (MW)	next hour <u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	
3. Minimum rate of delivery (MW)	next hour <u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	
4. Maximum daily HLH-energy deviation, for sustained peaking adjustment (MWH) <u>(approximations or best guesses)</u>	forecasted HLH generation for the day <u>YES</u>	x <u>YES</u>	x <u>NO</u>		
5. Maximum upward storage deviation (MWH)	<u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	
6. Maximum downward storage deviation (MWH)	<u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	
7. Expected storage content (MWH)	<u>YES</u>	x <u>YES</u>	x <u>NO</u>	x <u>NO</u>	x <u>NO</u>
8. <u>Characteristics of non-power constraints *</u> <u>(replaces rows 1-7 for forecasts beyond the next day)</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>	<u>YES</u>

* Similar to what BPA now provides to PNCA parties, but potentially more formalized for Slice participants.